

CALSCIENCE

WORK ORDER NUMBER: 14-04-2162

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: CH2M Hill

Client Project Name: Dynegy SBPP / 482070.01.03

Attention: James Laws

6 Hutton Centre Drive, Suite 700
Santa Ana, CA 92707-5735

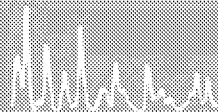
Approved for release on 04/30/2014 by:
Virendra Patel
Project Manager

ResultLink ▶

Email your PM ▶



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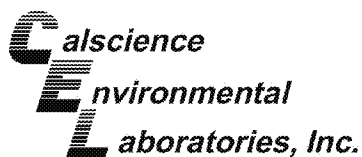
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NELAP ID: C3220CA | C6D-ELAP ID: L10-41 | CSDLAC ID: 10109 | SCAQMD ID: 03LA0830

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 Work Order Number: 14-04-2162

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Work Order Narrative

Work Order: 14-04-2162

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Condition Upon Receipt:

Samples were received under Chain of Custody (COC) on 04/29/14. They were assigned to Work Order 14-04-2162.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

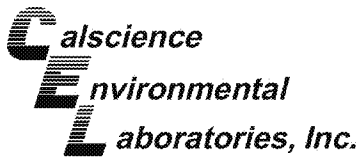
Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.



Sample Summary

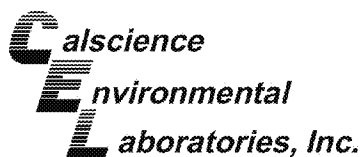
Client: CH2M Hill	Work Order: 14-04-2162
6 Hutton Centre Drive, Suite 700	Project Name: Dynegy SBPP / 482070.01.03
Santa Ana, CA 92707-5735	PO Number:
	Date/Time Received: 04/29/14 18:25
	Number of Containers: 4

Attn: James Laws

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
SBPP-PCB9c-042914	14-04-2162-1	04/29/14 09:10	1	Solid
SBPP-PCB10c-042914	14-04-2162-2	04/29/14 09:25	1	Solid
SBPP-PCB11c-042914	14-04-2162-3	04/29/14 09:30	1	Solid
SBPP-PCB12c-042914	14-04-2162-4	04/29/14 09:15	1	Solid

An upward-pointing arrow icon with the text 'Return to Contents' written vertically next to it.

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Analytical Report

CH2M Hill
6 Hutton Centre Drive, Suite 700
Santa Ana, CA 92707-5735

Date Received: 04/29/14
Work Order: 14-04-2162
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: Dynegey SBPP / 482070.01.03

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SBPP-PCB9c-042914	14-04-2162-1-A	04/29/14 09:10	Solid	GC 58	04/29/14	04/30/14 13:09	140429L13

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

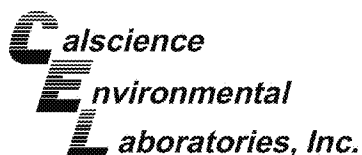
Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	92	24-168	
2,4,5,6-Tetrachloro-m-Xylene	99	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SBPP-PCB10c-042914	14-04-2162-2-A	04/29/14 09:25	Solid	GC 58	04/29/14	04/30/14 13:27	140429L13

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	24-168	
2,4,5,6-Tetrachloro-m-Xylene	96	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

CH2M Hill
6 Hutton Centre Drive, Suite 700
Santa Ana, CA 92707-5735

Date Received: 04/29/14
Work Order: 14-04-2162
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: Dynege SBPP / 482070.01.03

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SBPP-PCB11c-042914	14-04-2162-3-A	04/29/14 09:30	Solid	GC 58	04/29/14	04/30/14 13:45	140429L13

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

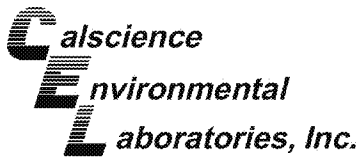
Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	90	24-168	
2,4,5,6-Tetrachloro-m-Xylene	98	25-145	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
SBPP-PCB12c-042914	14-04-2162-4-A	04/29/14 09:15	Solid	GC 58	04/29/14	04/30/14 14:03	140429L13

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	89	24-168	
2,4,5,6-Tetrachloro-m-Xylene	94	25-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Analytical Report

CH2M Hill
6 Hutton Centre Drive, Suite 700
Santa Ana, CA 92707-5735

Date Received: 04/29/14
Work Order: 14-04-2162
Preparation: EPA 3545
Method: EPA 8082
Units: ug/kg

Project: Dynege SBPP / 482070.01.03

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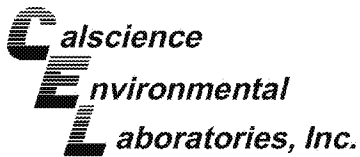
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-535-2581	N/A	Solid	GC 58	04/29/14	04/30/14 12:15	140429L13

Parameter	Result	RL	DF	Qualifiers
Aroclor-1016	ND	50	1.00	
Aroclor-1221	ND	50	1.00	
Aroclor-1232	ND	50	1.00	
Aroclor-1242	ND	50	1.00	
Aroclor-1248	ND	50	1.00	
Aroclor-1254	ND	50	1.00	
Aroclor-1260	ND	50	1.00	
Aroclor-1262	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
Decachlorobiphenyl	94	24-168	
2,4,5,6-Tetrachloro-m-Xylene	92	25-145	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Quality Control - Spike/Spike Duplicate

CH2M Hill
6 Hutton Centre Drive, Suite 700
Santa Ana, CA 92707-5735

Date Received: 04/29/14
Work Order: 14-04-2162
Preparation: EPA 3545
Method: EPA 8082

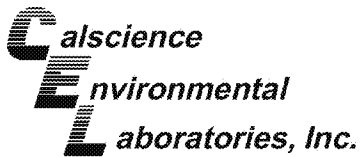
Project: Dynegy SBPP / 482070.01.03

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
SBPP-PCB9c-042914	Sample	Solid	GC 58	04/29/14	04/30/14 13:09	140429S13				
SBPP-PCB9c-042914	Matrix Spike	Solid	GC 58	04/29/14	04/30/14 12:33	140429S13				
SBPP-PCB9c-042914	Matrix Spike Duplicate	Solid	GC 58	04/29/14	04/30/14 12:51	140429S13				
Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Aroclor-1016	ND	100.0	107.7	108	91.96	92	50-135	16	0-20	
Aroclor-1260	ND	100.0	87.16	87	90.27	90	50-135	4	0-25	

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RPD: Relative Percent Difference. CL: Control Limits



Quality Control - LCS

CH2M Hill
6 Hutton Centre Drive, Suite 700
Santa Ana, CA 92707-5735

Date Received: 04/29/14
Work Order: 14-04-2162
Preparation: EPA 3545
Method: EPA 8082

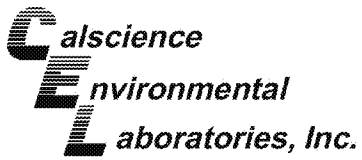
Project: Dynegy SBPP / 482070.01.03

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-535-2581	LCS	Solid	GC 58	04/29/14	04/30/14 11:57	140429L13
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Aroclor-1016		100.0	85.85	86	50-135	
Aroclor-1260		100.0	84.30	84	50-135	

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RPD: Relative Percent Difference. CL: Control Limits



Sample Analysis Summary Report

Work Order: 14-04-2162

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<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 8082	EPA 3545	669	GC 58	1

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Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

Glossary of Terms and Qualifiers

Work Order: 14-04-2162

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<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

Calscience Environmental Laboratories, Inc.

SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 4/29/14 Page 1 of 1

WO # / LAB USE ONLY
14-04-2162

CLIENT PROJECT NAME / NUMBER:
Dynegy SBPR / 482070.01.03

P.O. NO.: 482070-1000

PROJECT CONTACT: JAMES LAWS

SAMPLER(S): (PRINT)
Early

REQUESTED ANALYSES

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Relinquished by: (Signature) [Signature] Date: 4/29/14 Time: 15:00

Relinquished by: (Signature) [Signature] Date: 4/29/14 Time: 1825

Relinquished by: (Signature) [Signature] Date: 4/29/14 Time: 1825

LABORATORY CLIENT: CH2MHill

ADDRESS: 6 Hutton Centre DR #700

CITY: SANTA ANA ZIP: 92707

TURNAROUND TIME: 24 HR ☒ 24 HR ☐ 48 HR ☐ 72 HR ☐ STANDARD

☐ COELT EDK ☐ GLOBAL ID

SPECIAL INSTRUCTIONS: Send Report to: GEARLY@CH2M.COM Mgaschke@CH2M.COM GTHUSHER@CH2M.COM R MASON@CH2M.COM LAWS@CH2M.COM LAB TO CRUSH CONCRETE SAMPLES

LOG CODE

Received by: (Signature/Affiliation) [Signature]

Received by: (Signature/Affiliation) [Signature]

Received by: (Signature/Affiliation) [Signature]

WORK ORDER #: 14-04-2162

SAMPLE RECEIPT FORMCooler 1 of 1CLIENT: CH2MHILLDATE: 04/29/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 1.8 °C - 0.3 °C (CF) = 1.5 °C ☒ Blank ☐ Sample☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.☐ Received at ambient temperature, placed on ice for transport by Courier.Ambient Temperature: ☐ Air ☐ FilterChecked by: 671**CUSTODY SEALS INTACT:**☐ Cooler ☐ _____ ☐ No (Not Intact) ☒ Not Present ☐ N/A Checked by: 671☐ Sample ☐ _____ ☐ No (Not Intact) ☒ Not Present Checked by: 802**SAMPLE CONDITION:**

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:Solid: ☐ 4ozCGJ ☒ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (____) ☐ EnCores® ☐ TerraCores® ☐ _____Aqueous: ☐ VOA ☐ VOAh ☐ VOAna₂ ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 1AGB ☐ 1AGBna₂ ☐ 1AGBs☐ 500AGB ☐ 500AGJ ☐ 500AGJs ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 1PB ☐ 1PBna ☐ 500PB☐ 250PB ☐ 250PBn ☐ 125PB ☐ 125PBz₂na ☐ 100PJ ☐ 100PJna₂ ☐ _____ ☐ _____ ☐ _____Air: ☐ Tedlar® ☐ Canister Other: ☐ _____ Trip Blank Lot#: _____ Labeled/Checked by: 802Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 739Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure z₂na: ZnAc₂+NaOH f: Filtered Scanned by: 739